

EXPLOSION PROTECTED DIESEL ENGINE SYSTEMS MAINTENANCE

OVERVIEW

This course provides workshop staff with the skills and knowledge to work on diesel engines designed for use in hazardous areas. Over 4 days participants will undertake inspections, testing and maintenance functions in line with the requirements of AS/NZS 3584: Diesel engine systems for underground coal mines.

Participants are typically diesel mechanics and other workshop staff required to service, maintain and work around diesel engines used in underground coal mines. This includes workers in underground coal mines, and diesel workshops providing services to the coal industry.

The training provides a career development opportunity for experienced persons or tradespersons carrying out maintenance on explosion protected diesel engine systems used in underground coal mines. Participants must have support from their workplace to undertake this course.

The units within this course are referenced in *AS/NZS 3584 2012 Diesel engine systems for underground coal mines Part 3 Maintenance, Section 4, 4.1 Competence*. The course also meets the requirements of *Queensland's Coal Mining Safety and Health Regulation 2001, Section 82 (2) (e)*.

Upon completion of the course, participants will be able to:

- communicate effectively to clarify, share and carry out work instructions
- select and use testing equipment
- carry out testing of diesel engines and ancillary systems
- diagnose and record identified faults
- carry out maintenance on diesel engines and ancillary systems
- complete required documentation

DETAILS

Item	Description
Duration	4 days
Location	Verico Training Services 23 Warabrook Blvd Warabrook NSW
Cost	\$2,100 pp GST free

PRE-REQUISITS

The course is suitable for persons with a metal, mechanical, electrical or automotive trade, mechanical or electrical engineering qualification.

Trades qualifications are not a compulsory requirement, however, participants must have experience and competency in:

- Site operational and safety procedures
- Site procedures relating to operational maintenance
- Site maintenance systems and procedures
- Types, characteristics, uses and limitations of hand tools
- Types, characteristics, uses and limitations of measuring devices
- Hand tool maintenance, care and storage procedures
- Recording the completion of work via organisational documents/forms
- Using drawings and/or documents to prepare for inspection of equipment
- Dismantling and reconstructing equipment while conducting work
- Environmental constraints and requirements related to operational maintenance

UNITS OF COMPETENCY

Students are required to complete the following seven units of competency to obtain this accreditation.

Code	Title
RIIDES301D	Inspect, test and maintain diesel engine systems and their ancillary systems
RIIDES302D	Inspect, test and maintain joints on diesel engine systems
RIIDES303D	Inspect, test and maintain cooling systems on diesel engine systems
RIIDES304D	Inspect, test and maintain inlet systems on diesel engine systems
RIIDES305D	Inspect, test and maintain exhaust systems on diesel engine systems
RIIDES306D	Inspect, test and maintain safety shutdown systems on diesel engine systems
RIIDES307D	Test, determine the cause and rectify excessive emission levels on diesel engine systems

The RTO reserves the right to change the units within this training as required. Please refer to the Enrolment Form for the terms and conditions of enrolment, which includes: Enrolment and Selection, Training Guarantee, Course Fees, Payments and Refunds, Course Fees paid in Advance, Recognition of Prior Learning (RPL) or Credit Transfer.

ASSESSMENT REQUIREMENTS

Students will be provided with Assessment Workbooks outlining the assessment requirements, and tasks to be completed.

Assessment tasks include:

- Question and answer activities
- Measurements and calculations
- Review/confirmation of dimensions on certification drawings
- Simulations of maintenance work on explosion protected diesel systems
- Completing inspection/maintenance reports

COURSE OUTCOMES

Upon successful completion of this course, participants will be given a Statement of Attainment for the units successfully completed.

LANGUAGE, LITERACY AND NUMERACY REQUIREMENTS

Reading and writing The nature of the work is obtained from documentation, drawings and instructions are followed and manuals are reviewed. Mandatory documentation is completed in accordance with established procedures.

Oral communication Conduct a toolbox talks with others at the work site. Assistance is sought from appropriate persons to overcome difficulties. Hazards in the work area are recognised and reported. Recommendations for rectifying defects are made.

Numeracy and mathematics Dimensions are extracted from drawings and diagrams.

REFRESHER TRAINING

Verico Training Services recommends that the overhaul/repair competencies are refreshed at least every 5 years. This is in line with *Queensland's Coal Mining Safety and Health Regulation 2001, Section 84 (1)* - this is not explicitly stated in any NSW legislation.

RECOGNITION OF PRIOR LEARNING

All individual students are offered the opportunity to apply for RPL. Please see the Student Handbook or enquire at the RTO for the procedure on how to apply.

COURSE FEES, PAYMENTS AND REFUNDS

- For course fees over \$1,500, payment plans are available to students funding their own course fees. The course deposit will not exceed \$1,500.
- Refunds may be made in the following circumstances:
 - Participants are enrolled in training that has been terminated by the RTO
 - Participant advises the RTO more than seven days prior to course commencement they are withdrawing from the course
 - If the participant withdraws from a course or program, prior to course commencement, due to illness or extreme hardship as determined by the RTO
 - In the event that the RTO fails to provide the agreed services.
- An administration fee is required to be paid prior to course commencement, which is included within the deposit fee. If the student withdraws from the course prior to course commencement, they will forfeit this administration fee but may be entitled to a refund of the remaining deposit.
- No refunds will be issued once the student has commenced the course.
- If a student requires a reissue of their Certificate or Statement of Attainment, a certificate reissue fee of \$80 will be charged.
- If a student is deemed not yet competent on completion of training, they will be offered an opportunity to be reassessed. If a student is deemed not yet competent a second time, they will be given another opportunity for reassessment.